

CLAIMS

What is claimed is:

1 1. A method of automatically populating a contact database in a mobile
2 communication device configured to communicate voice and data over a
3 wireless network, the method comprising:
4 receiving a telephone number associated with a voice call involving the
5 mobile communication device; and
6 when a data connection is established between the mobile communication
7 device and a remote processing system via the wireless network, then
8 automatically
9 obtaining data associated with the telephone number via the
10 wireless network, and
11 storing the data in the contact database in association with the
12 telephone number.

1 2. A method as recited in claim 1, wherein said receiving the telephone number
2 comprises receiving Caller-ID information including the telephone number and
3 associated with an incoming call to the mobile communication device.

1 3. A method as recited in claim 1, wherein said receiving the telephone number
2 comprises receiving a telephone number associated with an outgoing call being
3 placed by a user of the mobile communication device.

16. A machine-readable program storage medium storing instructions for
 execution in a mobile communication device configured to communicate voice
 and data over a wireless network, to cause the mobile communication device to
 execute a process of automatically populating a contact database in the mobile
 communication device, the process comprising:
 receiving a telephone number associated with a voice call involving the
 mobile communication device; and
 when a data connection is established between the mobile communication
 device and a remote processing system via the wireless network, then
 automatically
 obtaining data associated with the telephone number via the
 wireless network, and
 storing the data in the contact database in association with the
 telephone number.

17. A machine-readable program storage medium as recited in claim 16, wherein
 said receiving the telephone number comprises receiving Caller-ID information
 including the telephone number and associated with an incoming call to the
 mobile communication device.

18. A machine-readable program storage medium as recited in claim 16, wherein
 said receiving the telephone number comprises receiving a telephone number

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3 associated with an outgoing call being placed by a user of the mobile
4 communication device.

1 19. A machine-readable program storage medium as recited in claim 16, wherein
2 the process further comprises attempting to locate the data associated with the
3 telephone number in the contact database, wherein said obtaining data
4 associated with the telephone number via the wireless network is performed
5 only after failing to locate the in the contact database.

1 20. A machine-readable program storage medium as recited in claim 16, wherein
2 the instructions are part of a browser to allow a user of the mobile
3 communication device to navigate hypermedia information, and wherein said
4 obtaining the data associated with the telephone number via the wireless
5 network is done automatically by the browser.

1 21. A machine-readable program storage medium as recited in claim 16, wherein
2 said obtaining the data associated with the telephone number comprises
3 automatically requesting the data associated with the telephone number from a
4 remote server via the wireless network when the data connection is established.

1 22. A machine-readable program storage medium as recited in claim 16, wherein
2 the obtained data associated with the telephone number is contained in a vCard.

23. A machine-readable program storage medium as recited in claim 16, wherein the obtained data associated with the telephone number comprises name or address information associated with the telephone number.

24. A machine-readable program storage medium as recited in claim 16, wherein the obtained data associated with the telephone number comprises ring tone data for use to generate a ring tone indicating the incoming voice call.

25. A mobile communication device comprising:

- a telephony unit to communicate voice over a wireless network; and
- a browser to allow a user of the mobile communication device to browse hypermedia information via the wireless network, the browser providing a process of automatically populating a contact database in the mobile communication device, the process comprising:
 - receiving from the telephony unit a telephone number associated with a voice call involving the mobile communication device, and
 - when a data connection is established between the mobile communication device and a remote processing system via the wireless network, then automatically
 - obtaining data associated with the telephone number via the wireless network, and
 - storing the data in the contact database in association with the telephone number.

1 26. A mobile communication device as recited in claim 25, wherein said
2 receiving from the telephony unit the telephone number comprises receiving
3 Caller-ID information including the telephone number and associated with an
4 incoming call to the mobile communication device.

1 27. A mobile communication device as recited in claim 25, wherein said
2 receiving the telephone number comprises receiving from the telephony unit a
3 telephone number associated with an outgoing call being placed by a user of the
4 mobile communication device.

1 28. A mobile communication device as recited in claim 25, wherein the process
2 further comprises attempting to locate the data associated with the telephone
3 number in the contact database, wherein said obtaining data associated with the
4 telephone number via the wireless network is performed only after failing to
5 locate the in the contact database.

1 29. A mobile communication device as recited in claim 25, wherein the
2 instructions are part of a browser to allow a user of the mobile communication
3 device to navigate hypermedia information, and wherein said obtaining the data
4 associated with the telephone number via the wireless network is done
5 automatically by the browser.

1 30. A mobile communication device as recited in claim 25, wherein said
 2 obtaining the data associated with the telephone number comprises
 3 automatically requesting the data associated with the telephone number from a
 4 remote server via the wireless network when the data connection is established.

1 31. A mobile communication device as recited in claim 25, wherein the obtained
 2 data associated with the telephone number is contained in a vCard.

1 32. A mobile communication device as recited in claim 25, wherein the obtained
 2 data associated with the telephone number comprises name or address
 3 information associated with the telephone number.

1 33. A mobile communication device as recited in claim 25, wherein the obtained
 2 data associated with the telephone number comprises ring tone data for use to
 3 generate a ring tone indicating the incoming voice call.